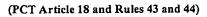
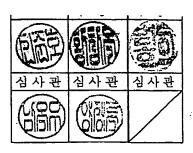


PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT





Applicant's or agent's file reference OPP040373KR	FOR FURTHER ACTION	see Form PCT/ISA as well as, where applicable,	
International application No.	International filing date (day/n	onth/year) (Earliest) Priority	Date (day/month/year)
PCT/KR2004/003444	24 DECEMBER 2004 (4.12.2004) 26 DECEMBER	R 2003 (26.12.2003)
Applicant			
Electronics and Telecommunicat	ions Research Institute	al	
This International search report has been prep to Article 18. A copy is being transmitted to t		ing Authority and is transmitted t	to the applicant according
This international search report consists of a t	total of 3 sheets. by of each prior art document cit	d in this report.	•
Basis of the report a. With regard to the language, the int language in which it was filed, unle	ss otherwise indicated under this	item.	
this Authority (Rule 23.	1(b)).	translation of the international ap	
b. With regard to any nucleofide	and/or amino acid sequence d	sclosed in the international applica	ation, see Box No. I.
2. Certain claims were found u	asearchable (See Box No. II)		•
3. Unity of invention is lacking	(See Box No. III)		
4. With regard to the title,			
the text is approved as submitte			
the text has been established by	y this Authority to read as follo	/s:	
			•
5. With regard to the abstract,		•	
the text is approved as submitt	ed by the applicant.		
the text has been established, a	according to Rule 38.2(b), by this	Authority as it appears in Box N	o. IV. The applicant
may, within one month from the	ne date of mailing of this interna	onal search report, submit comme	ents to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be put	blished with the abstract is Figur	No9	
as suggested by the appli	cant.		
because the applicant fail	ed to suggest a figure.		•
because this figure better	characterizes the invention.		
b. none of the figure is to be pub	lished with the abstract.		
			l

International application No. PCT/KR2004/003444

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04B 7/26

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 H04B 7/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KR: IPC as above

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) KIPASS, DELPHION, ESPACENET & Keywords: wireless, broadband, power, save, sleep, group and similar terms

DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6622251 B1 (TELEFONAKTIEBOLAGET LM ERICSSON) 16 September 2003 * the whole document *	1 - 21
A	Carla-Fabiana Chiasserini; Ramesh R. Rao,; "Improving energy saving in wireless systems by using dynamic power management"; Wireless Communications, IEEE Transactions on, Volume: 2, Issue: 5, September 2003, * pages 1090-1100 *	1 - 21
· A	US 5625882 A1 (MOTOROLA, INC.) 29 April 1997 * the whole document *	1 - 21
Α	US 6438375 B1 (TELEFONAKTIEBOLAGET LM ERICSSON) 20 August 2002 * the whole document *	1 - 21
Α	WO 96/19084 A1 (TELEFONAKTIEBOLAGET LM ERICSSON) 20 June 1996 * the whole document *	1 - 21
P, X	"Enhancement on Sleep Mode Operation by Grouping": IEEE C802.16e-04/05r1, 15 January 2004 <retrieved from="" internet="" the=""> <url: 16="" c80216e-04_05r1.pdf="" contrib="" http:="" tge="" www.ieee802.org=""></url:></retrieved>	1 - 21

*	Special categories of cited documents:	"T"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered		date and not in conflict with the application but cited to understand
1	to be of particular relevance		the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international	"X"	document of particular relevance; the claimed invention cannot be
1	filing date		considered novel or cannot be considered to involve an inventive
"L"	document which may throw doubts on priority claim(s) or which is		step when the document is taken alone
ĺ	cited to establish the publication date of citation or other	"Y"	document of particular relevance; the claimed invention cannot be

Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

See patent family annex.

Date of the actual completion of the international search 18 MARCH 2005 (18.03.2005)

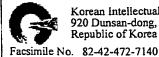
Date of mailing of the international search report

19 MARCH 2005 (19.03.2005) Authorized officer

Name and mailing address of the ISA/KR

special reason (as specified)

than the priority date claimed



"O"

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Further documents are listed in the continuation of Box C.

document referring to an oral disclosure, use, exhibition or other

document published prior to the international filing date but later

SHIN, Jun Ho

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003444

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